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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/017,561	12/14/2001	Laurence J. Culi	P02620	8073	
7590 07/20/2004			EXAM	EXAMINER	
Michael L. Smith			THALER, MICHAEL H		
Bausch & Lomb	Inc.				
One Bausch & Lomb Place			ART UNIT	PAPER NUMBER	
Rochester, NY 14604-2701			3731		
		DATE MAIL ED: 07/20/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		12			
	Application No.	Applicant(s)			
Office Action Comments	10/017,561	CULL, LAURENCE J.			
Office Action Summary	Examiner	Art Unit			
	Michael Thaler	3731			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. (D) (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>26 May 2004</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the l drawing(s) be held in abeyance. Sec tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Art Unit: 3731

Claims 1, 2 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ross et al. (6,258,111) in view of Graham (4,827,615). Ross et al. disclose a vitreous cutter (col. 1, lines 14-17) comprising housing 26, pneumatic motor (col. 4, lines 31-33) attached within the housing, cam 34 and vitrectomy probe 18. Ross et al. fail to specifically indicate that the pneumatic motor has rotatable vanes. pneumatic motors typically have rotatable vanes. For example, Graham teaches that fluid motors used in surgical instruments are "turbine motors" (col. 5, lines 15-18), (noting that a turbine, by definition, has rotatable vanes) wherein the turbine has the self-evident advantage of providing power to a rotatably shaft by directing pressurized fluid to the vanes of the turbine. It would have been obvious to include turbine vanes in the Ross et al. pneumatic motor so that it too would have this advantage. Cam 34 of Ross et al. would be attached to the vanes as claimed (at least indirectly) since the cam is attached to the output shaft 28 of the motor 24 (col. 4, lines 35-36) which in turn must be attached to the vanes in order for the vanes to rotate the output shaft 28.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ross et al. (6,258,111) in view of Graham (4,827,615) as applied to claim 1 above, and further in view of

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Hartman et al. (4,108,182). Ross et al. fail to disclose a camplate and spring in the mechanism 34, 38 that converts cam rotation to reciprocating movement of the vitrectomy probe. However, Hartman et al. teach that a mechanism that converts cam rotation to reciprocating movement of the vitrectomy probe should include a cam-plate (at 88) and spring 86 apparently to insure that the cam-plate smoothly and continuously contacts the cam 80. It would have been obvious to include a cam-plate and spring in the Ross et al. mechanism that converts cam rotation to reciprocating movement so that it too would have this advantage.

Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ross et al. (6,258,111) in view of Graham (4,827,615) as applied to claim 1 above, and further in view of Trott et al. (5,803,733). Ross et al. fail to disclose a brake on the pneumatic motor for selectively stopping rotation of the cam 34. However, Trott et al. teach that a pneumatic motor for a surgical instrument should include a brake to quickly prevent operation of the device as pressure is turned off (col. 2, lines 30-33). It would have been obvious to include a brake on the Ross et al. pneumatic motor so that it too would have this advantage. As to claim 6, the Trott et al. brake includes resilient arm 154 fixedly attached to the housing (at the distal

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end of 156) at one end (by frictional contact), brake-block 152 attached to an opposing end of the arm 154 (by frictional contact), wherein the resilient arm is deflected by the pressurized fluid to allow rotation of the motor (col. 5, lines 47-51). Trott et al. fail to disclose a notch on the shaft 124 to receive the brake-block. However, it is old and well known in this art to provide a notch on a rotatable shaft to receive the brake-block of a brake in order to insure that the brakeblock positively engages the rotatable shaft to stop rotation It would have been obvious to include a notch on the Trott et al. rotatable shaft 124 so that it too would have this advantage. Assuming arguendo that the ends of resilient arm 154 are not considered to be fixedly attached to the housing and brake-block 152, it is old and well known in this art to positively and fixedly attach the ends of a spring to the parts it contacts in order to insure that the assembly is positively secured together. It would have been obvious to so fixedly attach the ends of resilient arm 154 Trott et al. to the adjacent parts so that it too would have this advantage. The above well known in the art statements are taken to be admitted prior art because applicant failed to traverse the examiner's assertions (M.P.E.P. 2144.03).

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Applicant's arguments filed May 26, 2004 have been fully considered but they are not persuasive. Applicant alleges that the statement in col. 4, lines 31-33 Ross et al. "Although an electrical motor is described, it is to be understood that the motor may be a pneumatic device." refers to diaphragm driven reciprocating probes rather than rotary motors. This allegation is not well taken since Ross et al. disclosure makes no mention of changing the basic operation of the motor from a rotary motor to an axially reciprocating motor with a diaphragm. event, Graham teaches that a rotary pneumatic turbine motor may be used to drive a surgical cutter (col. 5, lines 15-18). Thus, the Ross et al. and Graham motors are similar in that they convert rotary motion from a rotary motor to another form of motion (either axial or lateral) for cutting. As to claim 5, the Trott et al. disclosure that the brake stops the rotary motion quickly (col. 2, lines 30-33) suggests or at least makes it obvious that it stops in less than one revolution.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action

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is not mailed until after the end of the THREE-MONTH shortened

statutory period, then the shortened statutory period will

expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated

from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than

SIX MONTHS from the mailing date of this final action.

inquiry concerning this communication or Any

communications from the examiner should be directed to Michael

Thaler whose telephone number is (703) 308-2981. The examiner

can normally be reached Monday to Friday.

The fax phone number for the organization where this

application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status

of this application or proceeding should be directed to the

receptionist whose telephone number is (703)308-0858.

mht 7/16/04

CHAEL THALER PRIMARY EXAMINER

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